SEQUENCE LISTING

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YOUNG, ANDREW A.

<120> NOVEL EXENDIN AGONIST FORMULATIONS AND METHODS OF ADMINISTRATION THEREOF

<130> 249/146US

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<141> 2001-12-27

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<151> 2000-01-14

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<151> 1999-01-14

<150> US 60/175,365
<151> 2000-01-10

<160> 189

<170> PatentIn Ver. 3.2

<210> 1
<211> 39
<212> PRT
<213> Heloderma horridum

<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 1
His Ser Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 2
<211> 39
<212> PRT
<213> Heloderma suspectum

<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 2
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 3
<211> 39
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<223> His, Arg or Thr

<220>
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<222> (2)
<223> Ser, Gly, Ala or Thr

<220>
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<220>
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<220>
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<223> Thr or Ser

<220>
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<222> (8)
<223> Ser or Thr

<220>
<221> VARIANT
<222> (9)
<223> Asp or Glu

<220>
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<222> (10)
<223> Leu, Ile, Val, pentylglycine or Met

<220>
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<223> Leu, Ile, pentylglycine, Val or Met

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<222> (22)
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<220>
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<223> Ile, Val, Leu, pentylglycine, tert-butylglycine or Met

<220>
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<222> (24)
<223> Glu or Asp

<220>
<221> VARIANT
<222> (25)
<223> Trp, Phe, Tyr or naphthylalanine

<220>
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<223> independently Pro, homoproline, 3-hydroxyproline, 4-hydroxyproline, thioproline, N-alkylglycine, N-alkylpentylglycine or N-alkylalanine

<220>
<221> VARIANT
<222> (36)..(38)
<223> independently Pro, homoproline, 3-hydroxyproline, 4-hydroxyproline, thioproline, N-alkylglycine, N-alkylpentylglycine or N-alkylalanine

<220>
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<222> (39)
<223> Ser, Thr or Tyr

<220>
<223> c-term is -OH or NH2, with the proviso that the compound does not have the formula of either SEQ ID NOS 1 or 2

<400> 3
Xaa Xaa Xaa Gly Thr Xaa Xaa Xaa Xaa Xaa Ser Lys Gln Xaa Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Xaa Xaa Xaa Xaa Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa Xaa
35

<210> 4
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<220>
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<222> (6)
<223> Ala, Phe, Tyr or napthylalanine

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<220>
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<220>
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<222> (10)
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<220>
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<222> (11)
<223> Ala or Ser

<220>
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<222> (12)
<223> Ala or Lys

<220>
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<222> (13)
<223> Ala or Gln

<220>
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<222> (14)
<223> Ala, Leu, Ile, pentylglycine, Val or Met

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<223> Ala or Glu

<220>
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<223> Ala or Val

<220>
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<220>
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<222> (21)
<223> Ala or Leu

<220>
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<222> (22)
<223> Ala, Phe, Tyr or naphthylalanine

<220>
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<222> (23)
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<220>
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<222> (24)
<223> Ala, Glu or Asp

<220>
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<222> (25)
<223> Ala, Trp, Phe, Tyr or naphthylalanine

<220>
<221> VARIANT
<222> (26)
<223> Ala or Leu

<220>
<221> VARIANT
<222> (27)
<223> Ala or Lys

<220>
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<222> (28)
<223> Ala or Asn

<220>
<221> MOD_RES
<222> (31)
<223> Pro, homoproline, 3Hyp, 4Hyp, thioproline, N-alkylglycine, N-alkylpentylglycine or N-alkylalanine

<220>
<221> MOD_RES
<222> (36)..(38)
<223> Pro, homoproline, 3Hyp, 4Hyp, thioproline, N-alkylglycine, N-alkylpentylglycine or N-alkylalanine

<220>
<223> residues 29-38 may or may not be present according to the specification as filed; c-term is -OH or NH2

<400> 4
Xaa Xaa Xaa Gly Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa
35

<210> 5
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<222> (1)
<223> His, Arg, Tyr, Ala, norvaline, Val, or norleucine

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<222> (2)
<223> Ser, Gly, Ala, or Thr

<220>
<221> VARIANT
<222> (3)
<223> Ala, Asp, or Glu

<220>
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<222> (4)
<223> Ala, norvaline, Val, norleucine or Gly

<220>
<221> VARIANT
<222> (5)
<223> Ala or Thr

<220>
<221> VARIANT
<222> (6)
<223> Phe, Tyr or napthylalanine

<220>
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<222> (7)
<223> Thr or Ser

<220>
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<222> (8)
<223> Ala, Ser or Thr

<220>
<221> VARIANT
<222> (9)
<223> Ala, Norvaline, Val, Norleucine, Asp or Glu

<220>
<221> VARIANT
<222> (10)
<223> Ala, Leu, Ile, Val, pentylglycine or Met

<220>
<221> VARIANT
<222> (11)
<223> Ala or Ser

<220>
<221> VARIANT
<222> (12)
<223> Ala or Lys

<220>
<221> VARIANT
<222> (13)
<223> Ala or Gln

<220>
<221> VARIANT
<222> (14)
<223> Ala, Leu, Ile, pentylglycine, Val or Met

<220>
<221> VARIANT
<222> (15)..(17)
<223> Ala or Glu

<220>
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<223> Ala or Val

<220>
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<223> Ala or Arg

<220>
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<223> Phe, Tyr or naphthylalanine

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<223> Ile, Val, Leu, pentylglycine, tert-butylglycine or
Met

<220>
<221> VARIANT
<222> (24)
<223> Ala, Glu or Asp

<220>
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<222> (25)
<223> Ala, Trp, Phe, Tyr or napthylalanine

<220>
<221> VARIANT
<222> (26)
<223> Ala or Leu

<220>
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<223> Ala or Lys

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<222> (28)
<223> Ala or Asn

<220>
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<223> Pro, homoproline, 3Hyp, 4Hyp, thioproline, N-alkylglycine, N-alkylpentylglycine or N-alkylalanine

<220>
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<222> (36)..(39)
<223> Pro, homoproline, 3Hyp, 4Hyp, thioproline, N-alkylglycine, N-alkylpentylglycine or N-alkylalanine

<220>
<223> residues 29-38 may or may not be present according to the specification as filed; c-term is -OH or NH2

<400> 5
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa Xaa
35

<210> 6
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 6
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly
20 25 30

<210> 7
<211> 30
<212> PRT
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<220>
<223> synthetic construct

<220>
<221> MOD_RES
<222> (30)
<223> AMIDATION, Position 30 is Gly-NH2

<400> 7
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly
20 25 30

<210> 8
<211> 28
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<213> Artificial Sequence

<220>
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<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 8
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Ala Ile Glu Phe Leu Lys Asn
20 25

<210> 9
<211> 39
<212> PRT
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<220>
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<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 9
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 10
<211> 39
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<213> Artificial Sequence

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<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 10
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 11
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 11
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 12
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 12
Tyr Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 13
<211> 39
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<220>
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<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Tyr-NH2

<400> 13
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Tyr
35

<210> 14
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<220>
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<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 14
His Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 15
<211> 39
<212> PRT
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<223> AMIDATION, Position 39 is Ser-NH2

<220>
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<222> (6)
<223> Xaa is napthylalanine

<400> 15
His Gly Glu Gly Thr Xaa Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 16
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<213> Artificial Sequence

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<220>
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<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 16
His Gly Glu Gly Thr Phe Ser Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 17
<211> 39
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<213> Artificial Sequence

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<220>
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<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 17
His Gly Glu Gly Thr Phe Ser Thr Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 18
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 18
His Gly Glu Gly Thr Phe Thr Thr Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 19
<211> 39

<212> PRT
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<220>
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<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 19
His Gly Glu Gly Thr Phe Thr Ser Glu Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 20
<211> 39
<212> PRT
<213> Artificial Sequence

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<220>
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<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<220>
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<222> (10)
<223> Xaa is pentylglycine

<400> 20
His Gly Glu Gly Thr Phe Thr Ser Asp Xaa Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 21
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<213> Artificial Sequence

<220>
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<220>
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<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<220>
<221> VARIANT
<222> (10)
<223> Xaa is pentylglycine

<400> 21
His Gly Glu Gly Thr Phe Thr Ser Asp Xaa Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 22
<211> 39
<212> PRT
<213> Artificial Sequence

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<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<220>
<221> VARIANT
<222> (14)
<223> Xaa is pentylglycine

<400> 22
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Xaa Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 23
<211> 39
<212> PRT
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<220>
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<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<220>
<221> VARIANT
<222> (14)
<223> Xaa is pentylglycine

<400> 23
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Xaa Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 24
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<220>
<221> VARIANT
<222> (22)
<223> Xaa is napthylalanine

<400> 24
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Xaa Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 25
<211> 39

<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 25
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Val Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 26
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 26
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Val Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 27
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT

<222> (23)
<223> Xaa at Position 23 is tertiary-butylglycine

<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 27
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Xaa Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 28
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT
<222> (23)
<223> Xaa at position 23 is tertiary-butylglycine

<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 28
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Xaa Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 29
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 29
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Asp Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 30
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, position 39 is Ser-NH2

<400> 30
His Ala Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 31
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT
<222> (31)
<223> Xaa at position 31 is thioproline

<220>
<221> VARIANT
<222> (36)..(38)
<223> Xaa at positions 36, 37, and 38 is thioproline

<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 31
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa Ser
35

<210> 32
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT
<222> (36)..(38)
<223> Xaa at positions 36, 37, and 38 is thioproline

<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 32
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa Ser
35

<210> 33
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT

<222> (31)
<223> Xaa at position 31 is homoproline

<220>
<221> VARIANT
<222> (36)..(38)
<223> Xaa at positions 36, 37, and 38 is homoproline

<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 33
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa Ser
35

<210> 34
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT
<222> (36)..(38)
<223> Xaa at positions 36, 37, and 38 is homoproline

<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 34
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa Ser
35

<210> 35
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> VARIANT
<222> (31)
<223> Xaa at position 31 is thioproline

<220>
<221> VARIANT
<222> (36)..(38)
<223> Xaa at positions 36, 37, and 38 is thioproline

<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 35
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa Ser
35

<210> 36
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT
<222> (31)
<223> Xaa at position 31 is homoproline

<220>
<221> VARIANT
<222> (36)..(38)
<223> Xaa at positions 36, 37, and 38 is homoproline

<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 36
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa Ser
35

<210> 37
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT
<222> (31)
<223> Xaa at position 31 is N-methylalanine

<220>
<221> VARIANT
<222> (36)..(38)
<223> Xaa at positions 36, 37, and 38 is N-methylalanine

<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 37
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa Ser
35

<210> 38
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT
<222> (36)..(38)
<223> Xaa at positions 36, 37, and 38 is N-methylalanine

<220>
<221> MOD_RES

<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 38
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa Ser
35

<210> 39
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT
<222> (31)
<223> Xaa at position 31 is N-methylalanine

<220>
<221> VARIANT
<222> (36)..(38)
<223> Xaa at positions 36, 37, and 38 is N-methylalanine

<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 39
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa Ser
35

<210> 40
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 40
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 41
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 41
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 42
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 42
His Ala Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 43
<211> 28

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 43
His Gly Glu Gly Ala Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 44
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 44
His Gly Glu Gly Thr Ala Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 45
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 45
His Gly Glu Gly Thr Phe Thr Ala Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 46
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 46
His Gly Glu Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 47
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 47
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ala Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 48
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES

<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 48
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Ala Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 49
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 49
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Ala Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 50
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 50
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Ala Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 51
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 51
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Ala Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 52
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 52
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Ala
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 53
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 53
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Ala Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 54
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 54
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Ala Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 55
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 55
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Ala Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 56
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 56
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Ala Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 57
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 57
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Ala Phe Leu Lys Asn
20 25

<210> 58
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 58
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Ala Leu Lys Asn
20 25

<210> 59
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 59
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Ala Lys Asn
20 25

<210> 60
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 60
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Ala Asn
20 25

<210> 61
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Ala-NH2

<400> 61
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Ala
20 25

<210> 62
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (38)
<223> AMIDATION, Position 38 is Pro-NH2

<400> 62
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro
35

<210> 63
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (38)
<223> AMIDATION, Position 38 is Pro-NH2

<400> 63
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro
35

<210> 64
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (37)
<223> AMIDATION, Position 37 is Pro-NH2

<400> 64
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro
35

<210> 65
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (37)
<223> AMIDATION, Position 37 is Pro-NH2

<400> 65
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro
35

<210> 66
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (36)
<223> AMIDATION, Position 36 is Pro-NH2

<400> 66
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro
35

<210> 67
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (36)
<223> AMIDATION, Position 36 is Pro-NH2

<400> 67
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro
35

<210> 68
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (35)
<223> AMIDATION, Position 35 is Ala-NH2

<400> 68
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala
35

<210> 69
<211> 35

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (35)
<223> AMIDATION, Position 35 is Ala-NH2

<400> 69
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala
35

<210> 70
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (34)
<223> AMIDATION, Position 34 is Gly-NH2

<400> 70
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly

<210> 71
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES

<222> (34)
<223> AMIDATION, Position 34 is Gly-NH2

<400> 71
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly

<210> 72
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (33)
<223> AMIDATION, Position 33 is Ser-NH2

<400> 72
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser

<210> 73
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (33)
<223> AMIDATION, Position 33 is Ser-NH2

<400> 73
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser

<210> 74
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (32)
<223> AMIDATION, Position 32 is Ser-NH2

<400> 74
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

<210> 75
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (32)
<223> AMIDATION, Position 32 is Ser-NH2

<400> 75
His Gly Glu Gly Thr Phe Thr Sér Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

<210> 76
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES

<222> (31)
<223> AMIDATION, Position 31 is Pro-NH2

<400> 76
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro
20 25 30

<210> 77
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (31)
<223> AMIDATION, Position 31 is Pro-NH2

<400> 77
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro
20 25 30

<210> 78
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (30)
<223> AMIDATION, Position 30 is Gly-NH2

<400> 78
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly
20 25 30

<210> 79
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (29)
<223> AMIDATION, Position 29 is Gly-NH2

<400> 79
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly
20 25

<210> 80
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (29)
<223> AMIDATION, Position 29 is Gly-NH2

<400> 80
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly
20 25

<210> 81
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT
<222> (31)
<223> Xaa is thioproline

<220>
<221> VARIANT
<222> (36)..(38)
<223> Xaa is thioproline

<220>
<221> MOD_RES
<222> (38)
<223> AMIDATION, Position 38 is thioproline-NH2

<400> 81
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa
35

<210> 82
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT
<222> (36)..(38)
<223> Xaa is thioproline

<220>
<221> MOD_RES
<222> (38)
<223> AMIDATION, Position 38 is thioproline-NH2

<400> 82
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa
35

<210> 83
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT
<222> (31)
<223> Xaa is N-methylalanine

<220>
<221> MOD_RES
<222> (37)
<223> AMIDATION, Position 37 is Pro-NH2

<400> 83
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Pro Pro
35

<210> 84
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT
<222> (31)
<223> Xaa is N-methylalanine

<220>
<221> VARIANT
<222> (36)..(37)
<223> Xaa is N-methylalanine

<220>
<221> MOD_RES
<222> (37)
<223> AMIDATION, Position 37 is N-methylalanine-NH2

<400> 84
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa
35

<210> 85
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT
<222> (31)
<223> Xaa is homoproline

<220>
<221> VARIANT
<222> (36)..(37)
<223> Xaa is homoproline

<220>
<221> MOD_RES
<222> (37)
<223> AMIDATION, Position 37 is homoproline-NH2

<400> 85
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa
35

<210> 86
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT
<222> (31)
<223> Xaa is homoproline

<220>
<221> VARIANT
<222> (36)
<223> Xaa is homoproline

<220>
<221> MOD_RES
<222> (36)
<223> AMIDATION, Position 36 is homoproline-NH2

<400> 86
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa
35

<210> 87
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (35)
<223> AMIDATION, Position 35 is Ala-NH2

<400> 87
Arg Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala
35

<210> 88
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (30)
<223> AMIDATION, Position 30 is Gly-NH2

<400> 88
His Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly
20 25 30

<210> 89
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT
<222> (6)
<223> Xaa is napthylalanine

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 89
His Gly Glu Gly Thr Xaa Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 90
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 90
His Gly Glu Gly Thr Phe Ser Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 91
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 91
His Gly Glu Gly Thr Phe Ser Thr Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 92
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 92
His Gly Glu Gly Thr Phe Thr Ser Glu Leu Ser Lys Gln Met Ala Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 93
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT
<222> (10)
<223> Xaa is pentylglycine

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 93
His Gly Glu Gly Thr Phe Thr Ser Asp Xaa Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 94
<211> 28

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT
<222> (22)
<223> Xaa is napthylalanine

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 94
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Xaa Ile Glu Phe Leu Lys Asn
20 25

<210> 95
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT
<222> (23)
<223> Xaa is tertiary-butylglycine

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 95
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Xaa Glu Trp Leu Lys Asn
20 25

<210> 96
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 96
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Asp Phe Leu Lys Asn
20 25

<210> 97
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (33)
<223> AMIDATION, Position 33 is Ser-NH2

<400> 97
His Gly Glu Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser

<210> 98
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (29)
<223> AMIDATION, Position 29 is Gly-NH2

<400> 98
His Gly Glu Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly
20 25

<210> 99
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT
<222> (31)
<223> Xaa is homoproline

<220>
<221> VARIANT
<222> (36)..(37)
<223> Xaa is homoproline

<220>
<221> MOD_RES
<222> (37)
<223> AMIDATION, Position 37 is homoproline-NH2

<400> 99
His Gly Glu Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa
35

<210> 100
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 100
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 101
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 101
His Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 102
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 102
His Gly Glu Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 103
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 103
His Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 104
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 104
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 105
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 105
His Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 106
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 106
His Gly Glu Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 107
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 107
His Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 108
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 108
His Gly Glu Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 109
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 109
Ala Ala Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 110
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 110
Ala Ala Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 111
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 111
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 112
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 112
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 113
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 113
Ala Gly Asp Gly Ala Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 114
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 114
Ala Gly Asp Gly Ala Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 115
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT
<222> (6)
<223> Xaa is napthylalanine

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 115
Ala Gly Asp Gly Thr Xaa Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 116
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT
<222> (6)
<223> Xaa is napthylalanine

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 116
Ala Gly Asp Gly Thr Xaa Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 117
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 117
Ala Gly Asp Gly Thr Phe Ser Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 118
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 118
Ala Gly Asp Gly Thr Phe Ser Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 119
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 119
Ala Gly Asp Gly Thr Phe Thr Ala Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 120
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 120
Ala Gly Asp Gly Thr Phe Thr Ala Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 121
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 121
Ala Gly Asp Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 122
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 122
Ala Gly Asp Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 123
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 123
Ala Gly Asp Gly Thr Phe Thr Ser Glu Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 124
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 124
Ala Gly Asp Gly Thr Phe Thr Ser Glu Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 125
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 125
Ala Gly Asp Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 126
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 126
Ala Gly Asp Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 127
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT
<222> (10)
<223> Xaa is pentylgylcine

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 127
Ala Gly Asp Gly Thr Phe Thr Ser Asp Xaa Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 128
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT
<222> (10)
<223> Xaa is pentylgylcine

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 128
Ala Gly Asp Gly Thr Phe Thr Ser Asp Xaa Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 129
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 129
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ala Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 130
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 130
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ala Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 131
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 131
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Ala Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 132
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 132
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Ala Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 133
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 133
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Ala Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 134
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 134
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Ala Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 135
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 135
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Ala Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 136
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 136
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Ala Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 137
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT
<222> (14)
<223> Xaa is pentylgylcine

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 137
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Xaa Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 138
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT
<222> (14)
<223> Xaa is pentylgylcine

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 138
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Xaa Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 139
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 139
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Ala Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 140
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 140
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Ala Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 141
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 141
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Ala
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 142
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES

<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 142
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Ala
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 143
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 143
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Ala Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 144
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 144
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Ala Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 145
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 145
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Ala Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 146
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 146
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Ala Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 147
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 147
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Ala Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 148
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 148
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Ala Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 149
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 149
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Ala Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 150
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 150
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Ala Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 151
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT
<222> (22)
<223> Xaa is napthylalanine

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 151
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Xaa Ile Glu Trp Leu Lys Asn
20 25

<210> 152
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT
<222> (22)
<223> Xaa is napthylalanine

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 152
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Xaa Ile Glu Phe Leu Lys Asn
20 25

<210> 153
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 153
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Val Glu Trp Leu Lys Asn
20 25

<210> 154
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 154
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Val Glu Phe Leu Lys Asn
20 25

<210> 155
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT

<222> (23)
<223> Xaa is tertiary-butylglycine

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 155
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Xaa Glu Trp Leu Lys Asn
20 25

<210> 156
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT
<222> (23)
<223> Xaa is tertiary-butylglycine

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 156
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Xaa Glu Phe Leu Lys Asn
20 25

<210> 157
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 157
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Asp Trp Leu Lys Asn
20 25

<210> 158
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 158
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Asp Phe Leu Lys Asn
20 25

<210> 159
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 159
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Ala Leu Lys Asn
20 25

<210> 160
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 160
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Ala Leu Lys Asn
20 25

<210> 161
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 161
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Ala Lys Asn
20 25

<210> 162
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 162
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Ala Lys Asn
20 25

<210> 163
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 163
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Ala Asn
20 25

<210> 164
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 164
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Ala Asn
20 25

<210> 165
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Ala-NH2

<400> 165
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Ala
20 25

<210> 166
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Ala-NH2

<400> 166
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Ala
20 25

<210> 167
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (38)
<223> AMIDATION, Position 38 is Pro-NH2

<400> 167
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro
35

<210> 168
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (38)
<223> AMIDATION, Position 38 is Pro-NH2

<400> 168
His Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro
35

<210> 169
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (37)
<223> AMIDATION, Position 37 is Pro-NH2

<400> 169
His Gly Glu Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro
35

<210> 170
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (36)
<223> AMIDATION, Position 36 is Pro-NH2

<400> 170
His Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro
35

<210> 171
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (36)
<223> AMIDATION, Position 36 is Pro-NH2

<400> 171
Ala Gly Glu Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro
35

<210> 172
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (35)
<223> AMIDATION, Position 35 is Ala-NH2

<400> 172
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala
35

<210> 173
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (35)
<223> AMIDATION, Position 35 is Ala-NH2

<400> 173
His Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala
35

<210> 174
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (34)
<223> AMIDATION, Position 34 is Gly-NH2

<400> 174
His Gly Glu Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly

<210> 175
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (33)
<223> AMIDATION, Position 33 is Ser-NH2

<400> 175
His Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser

<210> 176
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (32)
<223> AMIDATION, Position 32 is Ser-NH2

<400> 176
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

<210> 177
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (32)
<223> AMIDATION, Position 32 is Ser-NH2

<400> 177
His Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

<210> 178
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (31)
<223> AMIDATION, Position 31 is Pro-NH2

<400> 178
His Gly Glu Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro
20 25 30

<210> 179
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (30)
<223> AMIDATION, Position 30 is Gly-NH2

<400> 179
His Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly
20 25 30

<210> 180
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (29)
<223> AMIDATION, Position 29 is Gly-NH2

<400> 180
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly
20 25

<210> 181
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT
<222> (31)
<223> Xaa is thioproline

<220>
<221> VARIANT
<222> (36)..(38)
<223> Xaa is thioproline

<220>
<221> MOD_RES
<222> (38)
<223> AMIDATION, Position 38 is thioproline-NH2

<400> 181
His Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa
35

<210> 182
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT
<222> (36)..(38)
<223> Xaa is thioproline

<220>
<221> MOD_RES

<222> (38)
<223> AMIDATION, Position 38 is thioproline-NH2

<400> 182
His Gly Glu Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa
35

<210> 183
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT
<222> (31)
<223> Xaa is N-methylalanine

<220>
<221> VARIANT
<222> (36)..(37)
<223> Xaa is N-methylalanine

<220>
<221> MOD_RES
<222> (37)
<223> AMIDATION, Position 37 is N-methylalanine-NH2

<400> 183
His Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa
35

<210> 184
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> VARIANT
<222> (31)
<223> Xaa is homoproline

<220>
<221> VARIANT
<222> (36)
<223> Xaa is homoproline

<220>
<221> MOD_RES
<222> (36)
<223> AMIDATION, Position 36 is homoproline-NH2

<400> 184
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa
35

<210> 185
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (35)
<223> AMIDATION, Position 35 is Ala-NH2

<400> 185
His Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala
35

<210> 186
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (30)
<223> AMIDATION, Position 30 is Gly-NH2

<400> 186
His Gly Asp Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly
20 25 30

<210> 187
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic construct

<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 187
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 188
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic constructArtificial Sequence

<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 188
Ala Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 189
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> GLP-1[7-36] NH2 peptide

<220>
<223> c-term amidated

<400> 189
His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
1 5 10 15

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg
20 25 30